

Title (en)

MONITORING DEVICE WITH VOLATILE ORGANIC COMPOUNDS SENSOR AND SYSTEM USING SAME

Title (de)

ÜBERWACHUNGSVORRICHTUNG UND -SYSTEM MIT EINEM SENSOR FÜR FLÜCHTIGE ORGANISCHE VERBINDUNGEN

Title (fr)

DISPOSITIF DE SURVEILLANCE AVEC CAPTEUR DE COMPOSÉS ORGANIQUES VOLATILS ET SYSTÈME UTILISANT CELUI-CI

Publication

EP 2977973 B1 20180606 (EN)

Application

EP 15177627 A 20150721

Priority

FR 1456996 A 20140721

Abstract (en)

[origin: EP2976998A1] Method for video evaluation of the heart rate and/or respiratory rate of a baby (B), in particular under dim or nocturnal conditions, in a device comprising a video camera (2) and a source of infrared light (3), the method comprising the steps of: A1- illuminating the baby with the infrared source, A2- capturing video images of the baby, B1- determining the position of the baby's head (T) by finding an ellipse forming an outline of the head, B2- identifying an area of interest (7) centered on a selected ellipse (6), C- evaluating, by plethysmographic analysis of the area of interest, the heart rate (HR) and/or respiratory rate (RR) of the baby, and associated system D- identifying a significant movement of the baby, in which case step C- of photoplethysmographic analysis is suspended, D2- identifying a return to a stable state where there is no significant movement by the baby, in which case steps B1-B2 are executed once again, step C- of photoplethysmographic analysis being resumed with the new area of interest determined in step B2.

IPC 8 full level

G08B 21/00 (2006.01); **A61B 5/00** (2006.01); **G06V 10/25** (2022.01)

CPC (source: EP US)

A61B 5/0004 (2013.01 - US); **A61B 5/0205** (2013.01 - US); **A61B 5/02416** (2013.01 - EP US); **A61B 5/0816** (2013.01 - EP US); **A61B 5/1128** (2013.01 - EP US); **A61B 5/4803** (2013.01 - EP); **A61B 5/7207** (2013.01 - EP US); **G01N 33/0047** (2013.01 - EP US); **G06T 7/0016** (2013.01 - EP US); **G06T 7/75** (2016.12 - EP US); **G06V 20/52** (2022.01 - EP US); **G08B 21/0208** (2013.01 - EP); **H04N 7/185** (2013.01 - US); **A61B 2503/04** (2013.01 - EP US); **A61B 2560/0242** (2013.01 - EP US); **G06F 2218/10** (2023.01 - EP US); **G06T 2207/10024** (2013.01 - EP US); **G06T 2207/10048** (2013.01 - EP US); **G06T 2207/30076** (2013.01 - EP US); **G06T 2207/30201** (2013.01 - EP US); **G06V 10/25** (2022.01 - EP US)

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